



SEQUENCE LISTING

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<120> REGULATING LIPID LEVELS VIA THE ZMAX1 OR HBM GENE

<130> 032796-019

<140> US 09/578,900

<141> 2000-05-26

<150> US 09/543,771

<151> 2000-04-05

<150> US 09/229,319

<151> 1999-01-13

<150> US 60/071,449

<151> 1998-01-13

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<151> 1998-10-23

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Val Asp Ala Gly Gly Val Lys Leu Glu Ser Thr Ile Val Val Ser Gly						
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Glu Asp Lys Leu Pro His Ile Phe Gly Phe Thr Leu Leu Gly Asp Phe			
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atc tac tgg act gac tgg cag cgc cgc agc atc gag cgg gtg cac aag			1789
Ile Tyr Trp Thr Asp Trp Gln Arg Arg Ser Ile Glu Arg Val His Lys			
560	565	570	
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Val Lys Ala Ser Arg Asp Val Ile Ile Asp Gln Leu Pro Asp Leu Met			
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Ala Thr Arg Cys Gly Cys Pro Ile Gly Leu Glu Leu Leu Ser Asp Met	
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Lys Thr Cys Ile Val Pro Glu Ala Phe Leu Val Phe Thr Ser Arg Ala	
640 645 650	
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655 660 665	
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Pro Leu Thr Gly Val Lys Glu Ala Ser Ala Leu Asp Phe Asp Val Ser	
670 675 680 685	
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Asn Asn His Ile Tyr Trp Thr Asp Val Ser Leu Lys Thr Ile Ser Arg	
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gcc ttc atg aac ggg agc tgc gtg gag cac gtg gtg gag ttt ggc ctt	2221
Ala Phe Met Asn Gly Ser Ser Val Glu His Val Val Glu Phe Gly Leu	
705 710 715	
gac tac ccc gag ggc atg gcc gtt gac tgg atg ggc aag aac ctc tac	2269
Asp Tyr Pro Glu Gly Met Ala Val Asp Trp Met Gly Lys Asn Leu Tyr	
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tgg gcc gac act ggg acc aac aga atc gaa gtg gcg cgg ctg gac ggg	2317
Trp Ala Asp Thr Gly Thr Asn Arg Ile Glu Val Ala Arg Leu Asp Gly	
735 740 745	
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Gln Phe Arg Gln Val Leu Val Trp Arg Asp Leu Asp Asn Pro Arg Ser	
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Pro His Pro Phe Gly Leu Thr Gln Tyr Ser Asp Tyr Ile Tyr Trp Thr	
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Asp Trp Asn Leu His Ser Ile Glu Arg Ala Asp Lys Thr Ser Gly Arg	
865 870 875	
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Asn Arg Thr Leu Ile Gln Gly His Leu Asp Phe Val Met Asp Ile Leu	

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Asn Gly Gln Cys Gly Gln Leu Cys Leu Ala Ile Pro Gly Gly His Arg			
910	915	920	925
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Cys Gly Cys Ala Ser His Tyr Thr Leu Asp Pro Ser Ser Arg Asn Cys			
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Ser Pro Pro Thr Thr Phe Leu Leu Phe Ser Gln Lys Ser Ala Ile Ser			
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Arg Met Ile Pro Asp Asp Gln His Ser Pro Asp Leu Ile Leu Pro Leu			
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His Gly Leu Arg Asn Val Lys Ala Ile Asp Tyr Asp Pro Leu Asp Lys			
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Phe Ile Tyr Trp Val Asp Gly Arg Gln Asn Ile Lys Arg Ala Lys Asp			
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gac ggg acc cag ccc ttt gtt ttg acc tct ctg agc caa ggc caa aac			3133
Asp Gly Thr Gln Pro Phe Val Leu Thr Ser Leu Ser Gln Gly Gln Asn			
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Pro Asp Arg Gln Pro His Asp Leu Ser Ile Asp Ile Tyr Ser Arg Thr			
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Leu Thr Gly Ile His Ala Val Glu Glu Val Ser Leu Glu Glu Phe Ser				
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Ala His Pro Cys Ala Arg Asp Asn Gly Gly Cys Ser His Ile Cys Ile				
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Trp Arg Cys Asp Gly Phe Pro Glu Cys Asp Asp Gln Ser Asp Glu Glu				
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Gly Cys Pro Val Cys Ser Ala Ala Gln Phe Pro Cys Ala Arg Gly Gln				
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Met Glu Ala Ala Pro Pro Gly Pro Pro Trp Pro Leu Leu			
1	5	10	

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Leu Leu Leu Leu Leu Leu Leu Ala Leu Cys Gly Cys Pro Ala Pro Ala	
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Val Asp Ala Gly Gly Val Lys Leu Glu Ser Thr Ile Val Val Ser Gly	
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Leu Glu Asp Ala Ala Ala Val Asp Phe Gln Phe Ser Lys Gly Ala Val	
65 70 75	
tac tgg aca gac gtg agc gag gag gcc atc aag cag acc tac ctg aac	349
Tyr Trp Thr Asp Val Ser Glu Glu Ala Ile Lys Gln Thr Tyr Leu Asn	
80 85 90	
cag acg ggg gcc gcc gtg cag aac gtg gtc atc tcc ggc ctg gtc tct	397
Gln Thr Gly Ala Ala Val Gln Asn Val Val Ile Ser Gly Leu Val Ser	
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Pro Asp Gly Leu Ala Cys Asp Trp Val Gly Lys Lys Leu Tyr Trp Thr	
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Asp Ser Glu Thr Asn Arg Ile Glu Val Ala Asn Leu Asn Gly Thr Ser	
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Pro Leu Leu Leu Phe Ala Asn Arg Arg Asp Val Arg Leu Val Asp Ala
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Asp Val Ser Glu Glu Ala Ile Lys Gln Thr Tyr Leu Asn Gln Thr Gly
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Ala Ala Val Gln Asn Val Val Ile Ser Gly Leu Val Ser Pro Asp Gly
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Cys Gly Cys Pro Ile Gly	Leu Glu Leu Leu Ser Asp	Met Lys Thr Cys
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Arg	Leu	Tyr	Trp	Thr	Asp	Leu	Asp	Thr	Asn	Met	Ile	Glu	Ser	Ser	Asn	820	825	830
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Gln	Pro	His	Asp	Leu	Ser	Ile	Asp	Ile	Tyr	Ser	Arg	Thr	Leu	Phe	Trp	1025	1030	1035
Thr	Cys	Glu	Ala	Thr	Asn	Thr	Ile	Asn	Val	His	Arg	Leu	Ser	Gly	Glu	1045	1050	1055
Ala	Met	Gly	Val	Val	Leu	Arg	Gly	Asp	Arg	Asp	Lys	Pro	Arg	Ala	Ile	1060	1065	1070
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Asn	Thr	Leu	Gly	Lys	Leu	Phe	Trp	Val	Asp	Ala	Asp	Leu	Lys	Arg	Ile	1125	1130	1135
Glu	Ser	Cys	Asp	Leu	Ser	Gly	Ala	Asn	Arg	Leu	Thr	Leu	Glu	Asp	Ala	1140	1145	1150
Asn	Ile	Val	Gln	Pro	Leu	Gly	Leu	Thr	Ile	Leu	Gly	Lys	His	Leu	Tyr	1155	1160	1165
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 Gly Trp Ser His Leu Cys Leu Leu Ser Pro Ser Glu Pro Phe Tyr Thr

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Glu Gly Met Ala Val Asp Trp Met Gly Lys Asn Leu Tyr Trp Ala Asp	725	730	735
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Asp Lys Val Gly Arg Ala Asn Asp Leu Thr Ile Asp Tyr Ala Asp Gln	805	810	815
Arg Leu Tyr Trp Thr Asp Leu Asp Thr Asn Met Ile Glu Ser Ser Asn	820	825	830
Met Leu Gly Gln Glu Arg Val Val Ile Ala Asp Asp Leu Pro His Pro	835	840	845
Phe Gly Leu Thr Gln Tyr Ser Asp Tyr Ile Tyr Trp Thr Asp Trp Asn	850	855	860
Leu His Ser Ile Glu Arg Ala Asp Lys Thr Ser Gly Arg Asn Arg Thr	865	870	875
Leu Ile Gln Gly His Leu Asp Phe Val Met Asp Ile Leu Val Phe His	885	890	895
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Ala Ser His Tyr Thr Leu Asp Pro Ser Ser Arg Asn Cys Ser Pro Pro	930	935	940
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<400> 36
 agctgtctgt agctgtctct ccctgga 27

<210> 37
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Artificial sequence is a primer.

<400> 37
 gccgtaatgc ggcacaggga ataagct 27

<210> 38
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Artificial sequence is a primer.

<400> 38
 gagaggctat atccctgggc 20

<210> 39
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Artificial sequence is a primer.

<400> 39
 acagcacgtg tttaaagggg 20

<210> 40
 <211> 163
 <212> DNA
 <213> Homo sapiens

<400> 40
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 gccggacaac atggaggcag ctccgcccg gcccgcgtgg ccgctgctgc tgctgctgct 120
 gctgctgctg gcgctgtgcg gctgcccggc ccccgccgcg gcc 163

<210> 41
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 41
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 ccggcggagt caagctggag tccaccatcg tggtcagcgg cctggaggat gcggccgcag 120
 tggacttcca gttttccaag ggagccgtgt actggacaga cgtgagcgag gaggccatca 180
 agcagacctc cctgaaccag acggggggccg ccgtgcagaa cgtgggtcatc tccggcctgg 240
 tctctcccga cggcctcgcc tgcgactggg tgggcaagaa gctgtactgg acggactcag 300
 agaccaaccg catcgagggt gccaacctca atggcacatc ccggaagggt ctcttctggc 360
 aggaccttga ccagccgagg gccatcgctt tggaccccg ctcacgggtaa accctgctg 419

<210> 42
 <211> 221
 <212> DNA
 <213> Homo sapiens

<400> 42
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 gggatggatg gcagcaccgc gaagatcatt gtggactcgg acatttactg gcccaatgga 120
 ctgaccatcg acctggagga gcagaagctc tactgggctg acgccaagct cagcttcac 180
 caccgtgccca acctggacgg ctcgttccgg taggtacca c 221

<210> 43
 <211> 221
 <212> DNA
 <213> Homo sapiens

<400> 43
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 tctccgggga cactctgtac tggacagact ggcagaccgc ctccatccat gccctgcaaca 120
 agcgcaactgg ggggaagagg aaggagatcc tgagtgcctt atactcacc atggacatcc 180
 aggtgctgag ccaggagcgg cagccttttt gtgagtgcgc g 221

<210> 44
 <211> 156
 <212> DNA
 <213> Homo sapiens

<400> 44
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 gtccccaagc gaggccttttt acacatgcgc ctgccccacg ggtgtgcaga tgcaggacaa 120
 cggcaggacg tgtaaggcag gtgaggcggt gggacg 156

<210> 45
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 45
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 gctggacacg ccggacttca ccgacatcgt gctgcagggtg gacgacatcc ggcacgccat 120
 tgccatcgac tacgaccgcg tagagggcta tgtctactgg acagatgacg aggtgcgggc 180
 catccgcagg gcgtacctgg acgggtctgg ggcgcagacg ctggtcaaca ccgagatcaa 240
 cgaccccgat ggcacgcggg tcgactgggt ggcccgaac ctctactgga ccgacacggg 300
 cacggaccgc atcgagggtga cgcgcctcaa cggcacctcc cgcaagatcc tgggtgtcga 360
 ggacctggac gagccccgag ccacgcact gcaccccggt atggggtaag acgggc 416

<210> 46
 <211> 198
 <212> DNA
 <213> Homo sapiens

<400> 46
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 aacttggatg ggcaggagcg gcgtgtgctg gtcaatgcct ccctcgggtg gcccaacggc 120
 ctggccctgg acctgcagga ggggaagctc tactggggag acgccaagac agacaagatc 180
 gaggtgaggc tcctgttg 198

<210> 47
 <211> 244
 <212> DNA
 <213> Homo sapiens

<400> 47
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 tcccgcacat tttcgggttc acgtctgtgg gggacttcat ctactggact gactggcagc 120
 gccgcagcat cgagcgggtg cacaagggtca aggccagccg ggacgtcatc attgaccagc 180
 tgcccgaacct gatggggctc aaagctgtga atgtggccaa ggtcgtcggg gagtccgggg 240
 ggtc 244

<210> 48
 <211> 313
 <212> DNA
 <213> Homo sapiens

<400> 48
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 tctgcacacc ccacgcaacc cgggtgtggc gcccacatcg cctggagctg ctgagtgcaca 120
 tgaagacctg catcgtgcct gaggcctttt tggctttcac cagcagagcc gccatccaca 180
 ggatctccct cgagaccaat aacaacgacg tggccatccc gctcacgggc gtcaaggagg 240
 cctcagccct ggactttgat gtgtccaaca accacatcta ctggacagac gtcagcctga 300
 aggtagcgtg ggc 313

<210> 49
 <211> 255
 <212> DNA
 <213> Homo sapiens

<400> 49
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 agtttggcct tgactacccc gagggcatgg ccgttgactg gatgggcaag aacctctact 120
 gggccgacac tgggaccaac agaatcgaag tggcgcggct ggacgggcag ttccggcaag 180
 tcctcgtgtg gagggacttg gacaaccoga ggtcgctggc cctggatccc accaaggggt 240
 aagtgtttgc ctgtc 255

<210> 50
 <211> 210
 <212> DNA
 <213> Homo sapiens

<400> 50
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 tcgtccaaca tgctgggtga gggccgggct 210

<210> 51
 <211> 352
 <212> DNA
 <213> Homo sapiens

<400> 51
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 tgacgcagta cagcgattat atctactgga cagactggaa tctgcacagc attgagcggg 120

ccgacaagac	tagcggccgg	aaccgcaccc	tcattccagg	ccacctggac	ttcgtgatgg	180
acatcctgg	gttccactcc	tcccgcagg	atggcctcaa	tgactgtatg	cacaacaacg	240
ggcagtgtg	gcagctgtgc	cttgccatcc	ccggcgccca	ccgctgcggc	tgccctcac	300
actacaccct	ggaccccage	agccgcaact	gcagccgtaa	gtgcctcatg	gt	352

<210> 52
 <211> 225
 <212> DNA
 <213> Homo sapiens

<400> 52						
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atcccggacg	accagcacag	cccggatctc	atcctgcccc	tgcatggact	gaggaacgtc	120
aaagccatcg	actatgaccc	actggacaag	ttcatctact	gggtggatgg	gcgccagaac	180
atcaagcgag	ccaaggacga	cgggacccag	gcaggtgccc	tgtgg		225

<210> 53
 <211> 235
 <212> DNA
 <213> Homo sapiens

<400> 53						
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gccccacgac	ctcagcatcg	acatctacag	ccggacactg	ttctggacgt	gcgaggccac	120
caataccatc	aacgtccaca	ggctgagcgg	ggaagccatg	gggtgggtgc	tgctggggga	180
ccgcgacaag	cccagggcca	tcgtcgtcaa	cgcggagcga	gggtaggagg	ccaac	235

<210> 54
 <211> 218
 <212> DNA
 <213> Homo sapiens

<400> 54						
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cgcgcagccc	tggaaggcac	cgagcgcgag	gtcctcttca	ccaccggcct	catccgcctt	120
gtggccctgg	tggtggacaa	cacactgggc	aagctgttct	gggtggacgc	ggacctgaag	180
cgcattgaga	gctgtgacct	gtcaggtacg	cgccccgg			218

<210> 55
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 55						
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gcctgaccat	ccttggaag	catctctact	ggatcgaccg	ccagcagcag	atgatcgagc	120
gtgtggagaa	gaccaccggg	gacaagcggg	ctcgcattca	gggccgtgtc	gccacctca	180
ctggcatcca	tgcagtggag	gaagtcagcc	tggaggagtt	ctgtacgtgg	gggc	234

<210> 56
 <211> 157

<212> DNA

<213> Homo sapiens

<400> 56

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ttgccaaggg	tgatgggaca	ccacgggtgct	catgccccagt	ccacctcgctg	ctcctgcaga	120
acctgctgac	ctgtggaggt	aggtgtgacc	taggtgc			157

<210> 57

<211> 272

<212> DNA

<213> Homo sapiens

<400> 57

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cacaggggag	atcgactgta	tccccggggc	ctggcgctgt	gacggctttc	ccgagtgcga	120
tgaccagagc	gacgaggagg	gctgccccgt	gtgctccgcc	gcccagttcc	cctgcgcgcg	180
gggtcagtg	gtggacctgc	gcctgcgctg	cgacggcgag	gcagactgtc	aggaccgctc	240
agacgaggtg	gactgtgacg	gtgaggecct	cc			272

<210> 58

<211> 134

<212> DNA

<213> Homo sapiens

<400> 58

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catcaaacag	cagtgcgact	ccttccccga	ctgtatcgac	ggctccgacg	agctcatgtg	120
tggtgagcca	gctt					134

<210> 59

<211> 274

<212> DNA

<213> Homo sapiens

<400> 59

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tgtgccagcg	cgtgggtgtg	cagcgctatg	cgggggccaa	cgggcccttc	ccgcacgagt	180
atgtcagcgg	gaccccgac	gtgcccctca	atttcatagc	cccgggcggg	tcccagcatg	240
gccccttcac	aggtaaggag	cctgagatat	ggaa			274

<210> 60

<211> 164

<212> DNA

<213> Homo sapiens

<400> 60

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gccggggcgg	ggtgcccctc	tacgaccgga	accacgtcac	aggggcctcg	tccagcagct	120
cgtccagcac	gaaggccacg	ctgtaccgcg	cggtaggggg	cggg		164

<210> 61
 <211> 130
 <212> DNA
 <213> Homo sapiens

<400> 61
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 acatggacat gttctactct tcaaacattc cggccactgc gagaccgtac aggtaggaca 120
 tcccctgcag 130

<210> 62
 <211> 496
 <212> DNA
 <213> Homo sapiens

<400> 62
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 gccagcaagt actacctgga tttgaactcg gactcagacc cctatccacc cccaccacg 180
 cccacagcc agtacctgtc ggcgaggagc agctgcccgc cctcgcccgc caccgagagg 240
 agctacttcc atctcttccc gccccctccg tccccctgca cggactcacc ctgacctcgg 300
 ccggggccact ctggcttctc tgtgccccctg taaatagttt taaatatgaa caaagaaaaa 360
 aatatatattt atgatttaaa aaataaatat aattgggatt ttaaaaacat gagaaatgtg 420
 aactgtgatg ggggtgggcag ggctgggaga actttgtaca gtggagaaat atttataaac 480
 ttaattttgt aaaaca 496

<210> 63
 <211> 17
 <212> DNA
 <213> Zmax1

<400> 63
 agactggggt gagacgc 17

<210> 64
 <211> 19
 <212> DNA
 <213> Zmax1

<400> 64
 cagactgggt tgagacgcc 19

<210> 65
 <211> 24
 <212> DNA
 <213> Homo sapiens

<400> 65
 cccgtgtgct ccgccgccca gttc 24

<210> 66

<211> 25
<212> DNA
<213> Homo sapiens

<400> 66
ggctcacgga gctcatcatg gactt 25

<210> 67
<211> 502
<212> DNA
<213> Homo sapiens

<400> 67
cccggtgtgct ccgcccgcga gttcccctgc gcgcgggggc agtgtgtgga cctgcgcctg 60
cgctgcgacg gcgaggcaga ctgtcaggac cgctcagacg aggtggactg tgacgccatc 120
tgctgcccga accagttccg gtgtgcgagc ggccagtgtg tctcatcaa acagcagtgc 180
gactccttcc ccgactgtat cgacggctcc gacgagctca tgtgtgaaat caccaagccg 240
ccctcagacg acagcccggc ccacagcagt gccatcgggc ccgtcattgg catcatcctc 300
tctctcttcg tcatgggtgg tgtctatatt gtgtgccage gcgtgggtgt ccagcgttat 360
gcgggggcca acggggccct cccgcacgag tatgtcagcg ggaccccgca cgtgcccctc 420
aatttcatag ccccgggcgg ttcccagcat ggccccttca caggcatcgc atgcggaaag 480
tccatgatga gctccgtgag cc 502

<210> 68
<211> 21
<212> DNA
<213> Mouse

<400> 68
agcgaggcca ccatccacag g 21

<210> 69
<211> 21
<212> DNA
<213> Mouse

<400> 69
tcgctggctg gcataatcaa t 21

<210> 70
<211> 501
<212> DNA
<213> Mouse

<400> 70
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tggaactgat ttagcctcaa gacgatcagc cgagccttca tgaatgggag ctcagtggag 180
cacgtgattg agtttggcct cgactaccct gaaggaatgg ctgtggactg gatgggcaag 240
aacctctatt gggcggacac agggaccaac aggattgagg tggcccggct ggatgggcag 300
ttccggcagg tgcttgtgtg gagagacctt gacaacccca ggtctctggc tctggatcct 360

actaaaggct acatctactg gactgagtgg ggtggcaagc caaggattgt gcgggccttc 420
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<210> 71
 <211> 25
 <212> RNA
 <213> Zmax1

<400> 71
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<210> 72
 <211> 25
 <212> RNA
 <213> Zmax1

<400> 72
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<210> 73
 <211> 25
 <212> RNA
 <213> Zmax1

<400> 73
 gucugagucc gaguucuuau ccagg 25

<210> 74
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 74
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<210> 75
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 75
 aaaactgtgg gtgcttctgg 20

<210> 76

<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 76
gtgattgagc caatcctgag a 21

<210> 77
<211> 21
<212> DNA
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<220>
<223> primer

<400> 77
tgagccaaat aaaccccttc t 21

<210> 78
<211> 20
<212> DNA
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<400> 78
ctggactacg tggccttctc 20

<210> 79
<211> 19
<212> DNA
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<400> 79
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<210> 80
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<400> 80
ctcagtgccca tgaagatgga 20

<210> 81
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<400> 81

caagatcact cgatctccag g	21
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<210> 88	

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caagattctg tagcttctgg	20
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<211> 24	
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